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PATENT TRADEMARK OFFICE

Docket No: 1780/OJ605

DARBY & DARBY P.C.

805 Third Avenue
New York, New York 10022
212-527-7700

Box PATENT APPLICATION
Assistant Commissioner for Patents
Washington, DC 20231

Sir:

Enclosed please find an application for United States patent as identified below:

Inventor/s (name ALL inventors): David MACADAM; Steven SAIGON

Title: SOFTWARE CONTROLLED ELECTROPHYSIOLOGY DATA MANAGEMENT

including the items indicated:

1. Specification and 94 claims: 5 indep.; 89 dep.; X multiple dep.; including 63 page(s) of written description; 11 page(s) of claims; 1 page(s) of abstract.
2. [X] Drawings, 6 sheets (Figs. 1, 1A, 2-6)
3. [X] Priority is claimed under 35 U.S.C. §119(e) of:

Number: 60/247,269


Date: November 10, 2000

Table 1. Mean values of the variables measured during the three trials

	Pre-competition	Post-competition	Post-recovery
Age (years)	20.6 ± 0.7	20.8 ± 0.9	20.7 ± 0.8
Height (cm)	178.2 ± 4.5	178.2 ± 4.5	178.2 ± 4.5
Weight (kg)	72.5 ± 10.5	72.5 ± 10.5	72.5 ± 10.5
Heart rate (beats min ⁻¹)	138 ± 12	155 ± 15	142 ± 10
Systolic blood pressure (mmHg)	115 ± 10	125 ± 12	118 ± 8
Diastolic blood pressure (mmHg)	75 ± 8	80 ± 10	78 ± 6
VO _{2max} (l min ⁻¹)	3.8 ± 0.4	3.8 ± 0.4	3.8 ± 0.4
Lactate concentration (mmol l ⁻¹)	1.2 ± 0.2	2.5 ± 0.3	1.5 ± 0.2
Time to exhaustion (min)	120 ± 15	115 ± 10	118 ± 12
Power output (W)	250 ± 20	250 ± 20	250 ± 20
Energy expenditure (kJ min ⁻¹)	1.5 ± 0.1	1.5 ± 0.1	1.5 ± 0.1
Respiratory quotient	0.95 ± 0.05	0.95 ± 0.05	0.95 ± 0.05
Stroke volume (ml min ⁻¹)	100 ± 10	105 ± 12	102 ± 8
Cardiac output (l min ⁻¹)	13.8 ± 1.2	15.0 ± 1.5	14.2 ± 1.0
Mean arterial pressure (mmHg)	93 ± 8	98 ± 10	95 ± 6
Left ventricular stroke work (J min ⁻¹)	1.2 ± 0.1	1.3 ± 0.1	1.2 ± 0.1
Right ventricular stroke work (J min ⁻¹)	0.8 ± 0.1	0.9 ± 0.1	0.8 ± 0.1
Total stroke work (J min ⁻¹)	2.0 ± 0.2	2.2 ± 0.2	2.0 ± 0.2
Stroke work index (J min ⁻¹ m ²)	1.2 ± 0.1	1.3 ± 0.1	1.2 ± 0.1
Stroke work index right ventricle (J min ⁻¹ m ²)	0.8 ± 0.1	0.9 ± 0.1	0.8 ± 0.1
Stroke work index total (J min ⁻¹ m ²)	2.0 ± 0.2	2.2 ± 0.2	2.0 ± 0.2

- Date: August 30, 2001

Respectfully submitted,



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PATENT FEE COMPUTATION SHEET

	No. of Claims Presented	Extra Claims Previously Paid For	Number of Extra Claims	Rate
Basic Fee				\$710.00
Total Claims	94 - 20	- 0 = 74	x \$18.00	\$1332.00
Independent Claims	5 - 3	- 0 = 2	x \$80.00	\$160.00
Multiple Dependent Claims		- if so, add	\$270.00	\$270.00
Surcharge for late submission of filing fee and/or declaration (\$130.00)				\$0.00
SUBTOTAL				\$2472.00
<input type="checkbox"/> Small Entity REDUCTION (Half of Subtotal)				\$0.00
Fee for recordation of assignment (\$40.00)				\$0.00
Charge for filing non-English language application (\$130.00)				\$0.00
TOTAL				\$2472.00